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84 <u>L2</u>

L1 ((bus-repeater) or (bus adj1 repeater)) same lock\$3

5 L1

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<u>L3</u> L2

DB=USPT, USOC; PLUR=YES; OP=OR

<u>L2</u> ((bus-repeater) or (bus adj1 repeater)) and lock\$3

L1 ((bus-repeater) or (bus adj1 repeater)) same lock\$3

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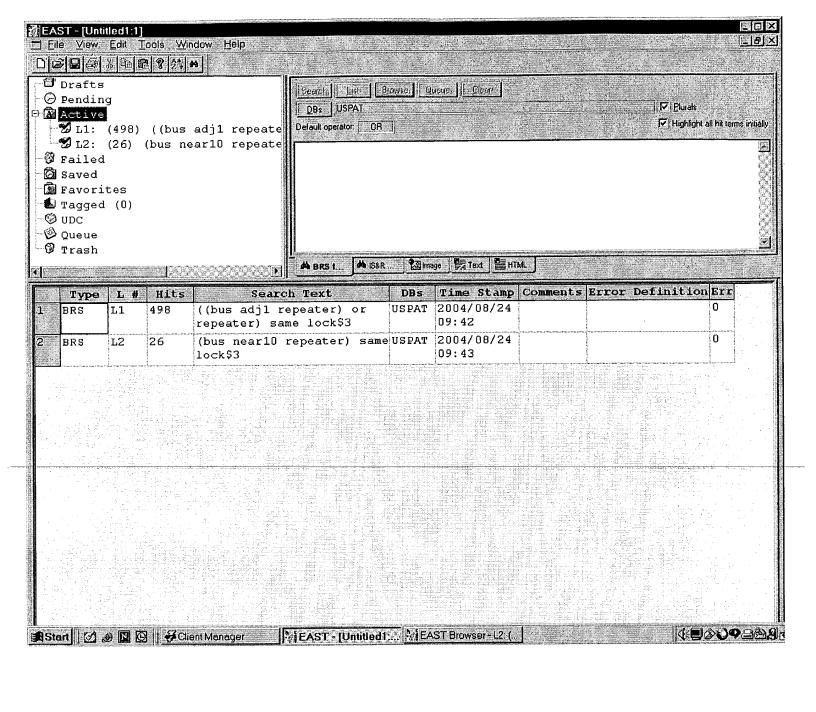
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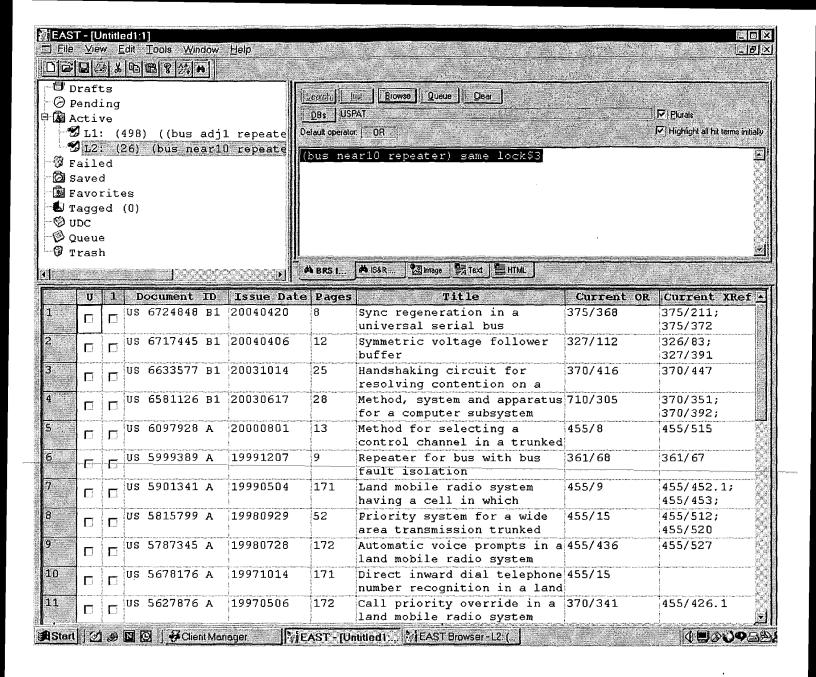
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Stanford Linear Accel. Center, CA, USA;

This paper appears in: COMPCON Spring '89. Thirty-Fourth IEEE Comput International Conference: Intellectual Leverage, Digest of Papers.

Meeting Date: 02/27/1989 - 03/03/1989

Publication Date: 27 Feb.-3 March 1989

Location: San Francisco, CA USA

On page(s): 536 - 538 Reference Cited: 0

Inspec Accession Number: 3406265

Abstract:

The scalable coherent interface (SCI) project (formerly known as SuperBus) is experience gained during the development of Fastbus (IEEE 960), Futurebus 896.1) and other modern 32-bit buses. SCI goals include a minimum bandwic Gb/s per processor; efficient support of a coherent distributed-cache image of memory; and support for segmentation, **bus repeaters**, and general switche interconnections like Banyon, Omega, or full crossbars. SCI abandons the impronded has been characteristics of the present generation of buses in favor of a pac protocol. SCI avoids wire-ORs, broadcasts, and even ordinary passive bus struexcept that a lower-performance (1 Gb/s per backplane instead of per process implementation using a register insertion ring architecture on a passive backplanears to be possible using the same interface as for the more costly switch summary is presented of current directions, and the status of the work in proreported

Index Terms:

computer interfaces 1 Gbit/s Banyon Omega SuperBus bus repeaters coherent cache image full crossbars general switched interconnections handshake characteristic based protocol register insertion ring architecture scalable coherent interface segments shared memory

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L5: Entry 1 of 8

File: USPT

Apr 20, 2004

US-PAT-NO: 6724848

DOCUMENT-IDENTIFIER: US 6724848 B1

TITLE: Sync regeneration in a universal serial bus

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

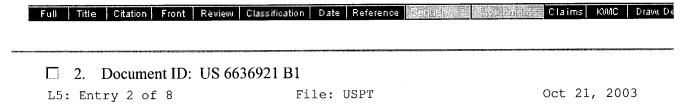
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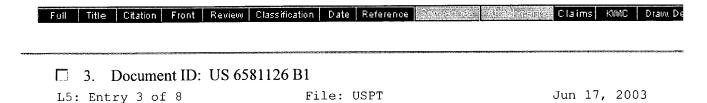
US-CL-CURRENT: 375/368; 375/211, 375/372



US-PAT-NO: 6636921

DOCUMENT-IDENTIFIER: US 6636921 B1

TITLE: SCSI repeater circuit with SCSI address translation and enable

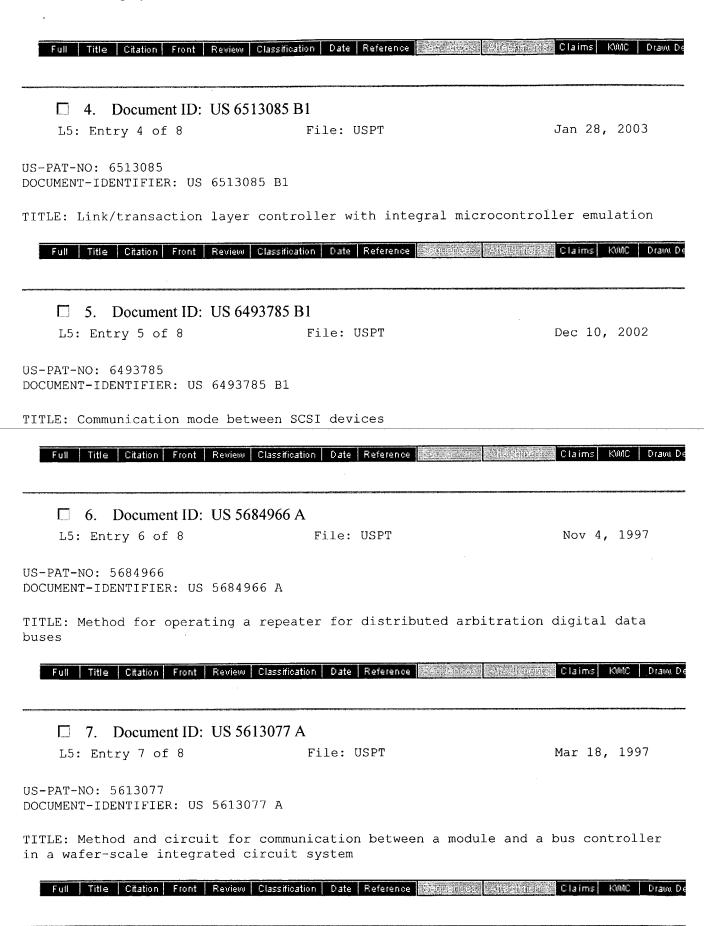


US-PAT-NO: 6581126

DOCUMENT-IDENTIFIER: US 6581126 B1

TITLE: Method, system and apparatus for a computer subsystem interconnection using a chain of bus repeaters

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h e b b g e e e f e bgc ef b e

□ 8. Document ID: US 4974153 A

L5: Entry 8 of 8

File: USPT

Nov 27, 1990

US-PAT-NO: 4974153

DOCUMENT-IDENTIFIER: US 4974153 A

TITLE: Repeater interlock scheme for transactions between two buses including

transaction and interlock buffers

Full	Title Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Dravu De
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File: USPT

Jun 17, 2003

US-PAT-NO: 6581126

DOCUMENT-IDENTIFIER: US 6581126 B1

TITLE: Method, system and apparatus for a computer subsystem interconnection using

a chain of bus repeaters

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Regula; Jack

San Jose

CA

ASSIGNEE-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

TYPE CODE

PLX Technology, Inc.

Sunnyvale C

CA

02

APPL-NO: 09/ 315412 [PALM]
DATE FILED: May 19, 1999

PARENT-CASE:

This application is a continuation-in-part of copending U.S. application Ser. No. 08/771,581, Method and Apparatus for a Fault Tolerant, Software Transparent and High Data Integrity Extension to a Backplane Bus or Interconnect filed Dec. 20, 1996 and hereby incorporated by reference in its entirety; this application also claims priority to U.S. Provisional application No. 60/116,686, Broken Ring, filed Jan. 20, 1999, and hereby incorporated by reference in its entirety.

INT-CL: [07] G06 F 13/28, G06 F 13/14, G06 F 15/173, H04 L 12/28, H04 L 12/56

US-CL-ISSUED: 710/305; 710/31, 370/351, 370/392, 709/239, 709/242 US-CL-CURRENT: 710/305; 370/351, 370/392, 709/239, 709/242, 710/31

FIELD-OF-SEARCH: 710/305, 710/31, 710/36-38, 370/223, 370/351, 370/392-393,

713/400-601, 709/238, 709/239, 709/240, 709/241, 709/242

PRIOR-ART-DISCLOSED:

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February 1988

Shih

340/3.9

<u>4736393</u>

April 1988

Grimes et al.

	<u>4845709</u>	July 1989	Matsumoto et al.	
	4866706	September 1989	Christophersen et al.	370/85.7
	4882704	November 1989	Komori et al.	710/105
	4939752	July 1990	Literati et al.	
	4954983	September 1990	Klingman	710/11
	5155843	October 1992	Stamm et al.	714/5
	5241543	August 1993	Amada et al.	·
	5410723	April 1995	Schmidt et al.	710/57
	5465251	November 1995	Judd et al.	370/54
	5734685	March 1998	Bedell et al.	375/356
	5764924	June 1998	Hong	
	5826037	October 1998	Stiegler et al.	395/200.81
	5828670	October 1998	Narasimha et al.	
	5841989	November 1998	James et al.	709/239
	5897656	April 1999	Vogt et al.	711/141
П	5920267	July 1999	Tattersall et al.	340/825.05
	5964845	October 1999	Braun et al.	709/400

OTHER PUBLICATIONS

Efficient broadcast using selective flooding; Arunkumar, S.; Panwar, R.S.; Infocom '92. Eleventh Annual Joint Conference of the IEEE Computer and Communications Societies. IEEE, May 4-8, 1992 pp.: 2060-2067 vol. 3.*

A new flooding routing algorithm based on `node-step` concept; Sheng-Lin; Jing-Sheng Liu; Singapore ICCS/ISITA '92. `Communications on the Move`, Nov. 16-20, 1992 pp.: 1396-1399 vol. 3.*

Towards a self-healing intelligent network; May, C.J.; Dighe, R.S.; Communications, 1991. ICC 91, Conference Record. IEEE International Conference on, Jun. 23-26, 1991 pp.: 655 -659 vol. 2.*

Master Thesis by Ivan Tving, Aug. 28, 1994, "Multiprocessor interconnection using SCI".

PCI Local Bus Specification, Revision 2.1, Jun. 1, 1995, PCI Special Interest Group.

PCT To PCI Bridge Architecture Specification, Version 1.0, 1994, PCI Special Interest Group.

Cache Coherence Protocols for Large-Scale Multiprocessors, by David Lars Chaiken.

ART-UNIT: 2189

PRIMARY-EXAMINER: Auve; Glenn A.

ASSISTANT-EXAMINER: Vu; Trisha

ATTY-AGENT-FIRM: Swernofsky Law Group PC

ABSTRACT:

The invention discloses methods and apparatus for broadcasting information across an interconnect that includes a plurality of nodes each connected to its adjacent

node(s) using one or more links. The nodes can emit cells containing transaction sub-actions onto the links. As a node receives a cell the node retransmits the cell onto other links as the cell is being received. Thus, reducing the latency imposed by the node. The node also captures the transaction sub-action while it the cell is retransmitted. The node responds to the transaction sub-action by manipulating shared handshake lines that are bussed with the other nodes. The invention enables snooping cache protocols to be successfully used in a larger multi-processor computer system than the prior art.

69 Claims, 13 Drawing figures

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